

I-18952-65 DFT(m)/EPP(c)/EMP(j)/T Pa-4/Pn-4 RM

ACCESSION NR: AF4049423

S/0316/64/000/001/0069/0075

AUTHOR: Gurevich, V. R.; Dulin, M. A.; Arutyunova, K. M.

TITLE: Polymerization of ethylene on a chromium oxide catalyst. Report No. 2.  
Effect of temperature on the activity of the chromium oxide catalyst and molecular weight of the polymer

SOURCE: Azerbaydzhanskiy khimicheskiy zhurnal, no. 1, 1964, 69-75

TOPIC TAGS: polyethylene, ethylene polymerization, polymerization catalyst, chromium oxide catalyst, catalyst activity, catalyst poison

ABSTRACT: The purpose of the work was to systematize and refine the data on the influence of the reaction temperature on the polymerization rate of ethylene at 100-175°C and on the molecular weight of the polymer obtained. Most of the experimental data were obtained by statistical treatment of a series of experiments. It was shown that the temperature dependence of the reaction rate in the 100-175°C range consists of three sections with different activation energies. In the 115-145°C interval, the reaction rate was shown to be determined by diffusional retardation. A relationship was derived for the variation of the polymerization rate with the temperature and concentration of the catalyst poisons in the reaction zone. The influence of the reaction temperature and concentration of the catalyst poisons

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In the reaction zone on the molecular weight of the polymer was also investigated.  
Orig. art. has: 8 figures and 7 formulas.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: OC

NO REF Sov: 013

OTHER: 001

Card 2/2

MEKHTIYEV, S.D.; DALIN, M.A.; KAMBAROV, Yu.G.

Role of Russian and Soviet scientists in the development of  
petrochemical science and industry in Azerbaijan. Azerb. khim.  
zhur. no.3:3-10 't4.  
(MIRA 18:5)

L 19731-65 EWT(m)/EPF(c)/EWP(j) Pg-4/Pr-4 RM

ACCESSION NR: AP4049803

S/0316/64/000/004/0073/0077

AUTHOR: Ninal'lov, I.I.; Pis'man, I.I.; Dulin, M.A.

TITLE: Dehydration of secondary butyl alcohol 13

SOURCE: Azerbaydzhan'skiy khimicheskiy zhurnal, no. 4, 1964, 73-77

TOPIC TAGS: butanol dehydration, butene production, secondary alcohol dehydration, dehydration catalyst, olefin production, olefin isomerization

ABSTRACT: While butene isomerization is of great theoretical and practical interest, it has been little studied, especially in connection with n-butanol dehydration. The present authors studied the laws governing 2-butanol dehydration in connection with the acidity of the catalyst. The following catalysts were investigated: tungstic acid, titanium dioxide, silicotungstic-, phosphomolybdc-, and phosphobungstic acids,  $\text{Ca}_3(\text{PO}_4)_2$ ,  $\text{Al}_2\text{O}_3$ ,  $\text{Al}_2\text{O}_3 + 0.25\%$  KOH,  $\text{Al}_2\text{O}_3 + 0.55\%$  LiOH and  $\text{Al}_2\text{O}_3 + 1.65\%$  LiOH. The influence of alkali addition on the activity and selectivity of the catalyst was also studied. It was shown that with increasing alkali content in the catalyst, the concentration of 2-cis-butene increases. Thus, cis- and trans-isomerization of 2-butene is due to acidic surface areas. The activity of a catalyst decreases with an increase in alkali content. It was established that the reaction

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L 19731-65  
ACCESSION NR: AP4049803

is primary. The effective activation energy is 19.6 kcal/mol and the preexponential factor is  $5.5 \cdot 10^7$ . Apparently, no 1-butene is formed (with cis- and trans-2-butenes) when 2-butanol is dehydrated over  $\text{Al}_2\text{O}_3$ . The most active and selective catalyst is gamma- $\text{Al}_2\text{O}_3$ . Chromatographic analysis with air as a developer was used in the study.  
Orig. art. has: 3 figures and 2 tables.

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: OC

NO REF SOV: 006

OTHER: 004

Card 2/2

I 18592-65 EWC(j)/EWT(n)/EPF(c)/EPR/EWP(t)/EWP(b) Pr-4/Ps-4 IJP(c)

JD/RM  
ACCESSION NR. AP5003063

S/0152/64/000/008/0069/0074

B

AUTHOR: Kes'yannov, V. V.; Pis'man, I. I.; Dalin, M. A.

TITLE: Kinetics of the isomerization of butene-1 with the double bond shifted to A-1 aluminum oxide

SOURCE: IVUZ. Neft' i gaz, no. 8, 1964, 69-74

TOPIC TAGS: isomerization, hydrocarbon

Abstract: Kinetics of isomerization of butene-1 to butene-2 (cis + trans), on A-1 aluminum oxide is studied in the temperature interval of 220-260° C. The energy of activation calculated on the basis of a proposed kinetic equation is 32.9 kcal/mole. Based on data of the kinetics of dehydration of butanol-1, the energy of activation is calculated for the isomerization of butene-1 to butene-2, which proves to be equal to 38.8 kcal/mole.

Orig. art. has 16 formulas, 4 graphs, and 2 tables.

ASSOCIATION: Azerbaydzhanskiy institut nefti i khimii im. N. Azizbekova (Azerbaijan Institute of Petroleum and Chemistry); VNIIOLEFIN; OZ

SUBMITTED: 15 Jan 64

NO REF Sov: 004

ENCL# 00

OTHER# 003

SUB CODE: OC, GC

JPKS

Card 1/1

L 16654-65 EWT(m)/EPP(c)/EWP(j) P<sub>c</sub>-4/Pr-4 RPL/RAEM(1) RM

ACCESSION NR: AP4048460

8/0249/64/020/007/0025/0028

B

AUTHOR: Zeynalov, B. K., Aliyev, R. M., Dalin, M. A. (Academician AN AzerbSSR)

TITLE: Synthesis of complex esters (plasticizers) based on cyclohexanols and synthetic acids. IX. Synthesis of complex esters (plasticizers) based on cyclohexandiol-1, 2 and synthetic fatty acids

7

SOURCE: AN AzerbSSR. Doklady\*, v. 20, no. 7, 1964, 25-28

TOPIC TAGS: plasticizer, cyclohexandiol ester, fatty acid, complex ester

ABSTRACT: The present work was undertaken because there is little information in the literature concerning trans-1, 2-cyclohexandiol diacetate. The synthesis of this and related esters was undertaken by straight esterification, benzene and toluene being used as azeotropes with water. Esterification proceeded readily at 90-130°C at a 1:1 molar ratio of the components in the course of 1.5-2 hrs. Concentrated hydrochloric acid was used advantageously as a catalyst. Esterification was continued until an equilibrium state had been reached, when the acid number remained constant. The products - colorless oily liquids soluble in alcohol, ether, benzene, acetone and dichloroethane - are described. Optimal conditions were established for the preparation of trans-1, 2-cyclohexanediol diformate, -dipropionate, -dicapronate, -dipelargonate, and -dicaprylate. Their physical

Card 1/2

L 16652-65

ACCESSION NR: AP4045293

ASSOCIATION: Otdelenie tekhniki gazovykh razryadov akademii nauk germanskoy demokraticeskoy respubliky (Gas Discharge Engineering Section, Academy of Sciences, German People's Republic)

SUBMITTED: 00

ENCL: 00

SUB CODE: GP, NP

NO REF Sov: 000

OTHER: 002

Card 2/2

DALIN, M.A.; BERG, B.G., GERSH, V.S., MARKOV, A.I.; MENDZ, Y.L.;  
Prinimali uchastliye: GUSEYNOVA, Z.D.; TANIVANTS, E.I.,  
SARKISYANTS, G.I., TUR'YISKII, Y.N.; NEMCHIK, I.G.

Low temperature rectification of pyrolysis gas on a sectional  
column. Khim. prom. 40 no.10:784-790 O '64.

(PMM 18:2)

I-226(2-65) EWT(m)/EPT(c)/EPR/EPM(j) Po-4/Pt-4/Pa-4 RPL WW/RM

ACCESSION NR: AP4012969

8/0020/64/154/004/0854/0856 - 1

AUTHOR: Dalin, M. A. (Academician AN AzerbSSR); Mekhtiyev, S. I.; Rasulbekova, T. I.

TITLE: Process of obtaining methacrylonitrile by oxidative ammonolysis of isobutylene with atmospheric oxygen

SOURCE: AN SSSR. Doklady, v. 154, no. 4, 1964, 854-856

TOPIC TAGS: methacrylonitrile, methacrylonitrile production, isobutylene, oxidative ammonolysis, methacrylonitrile purification, methacrylonitrile ammonolysis, fluid bed ammonolysis, ammonolysis

ABSTRACT: The production of methacrylonitrile by oxidative ammonolysis of isobutylene with atmospheric oxygen was studied in laboratory flow reactors with fixed and fluid bed catalysts. The effect of process parameters (temperature, reactant molar ratio, and contact time) on yields was studied. Optimum process conditions are: 420°C; molar ratio of isoC<sub>4</sub>H<sub>8</sub>:NH<sub>3</sub>:O<sub>2</sub>:H<sub>2</sub>O = 1.2:2.5:(1-3); and 3-sec contact time. Under these conditions methacrylonitrile yield is 55-60%, with 60-65% selectivity and 80-100% conversion of isobutylene. Byproducts are 15-20% of HCN, acetonitrile, and acrylonitrile. The methacrylonitrile may be purified by

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L 22642-65

ACCESSION NR: AP4012969

extractive distillation with water with subsequent azeotropic drying.  
Orig. art. has: 4 figures.

ASSOCIATION "Vsesoyuznyy nauchno-issledovatel'skiy tekhnologicheskiy institut po polucheniiyu i pererabotke nizkomolekulyarnykh olefinov s opytnym zavodom" (All-Union Scientific Research Technological Institute for Production and Processing of Low-Molecular Olefins with Pilot Plant)

SUBMITTED: 15 Jun 63

ENCL: 00

SUB CODE: OC, GC

NO REF SOV: 002

OTHER: 005

Card 2/2

BAKHTANOV, V. V. DALIN, M. A., doktor tekhn. nauk, prf. f. akademik, red.;  
IVANOV, S. M., red.

[Synthetic rubber; problems and solutions] SK: problemy i  
resheniia. Moskva, Znanie, 1965. 47 p. (Novoe v zhizni,  
nauke, tekhnike. IV Seriya: Tekhnika, no. 12)  
(MIRA 18:?)

1. Akademiya nauk Azerbaydzhanskey SSR (fer Dalin).

FIS'MAN, I.I.; NINALALOV, I.I.; DALIN, M.A.

Isomerization of 1-butene to 2-methylpropene. Azerb. khim. zhur.  
no.1:69-74 '65. (MIRA 18:7)

1. VNIIOlefin.

ISMAILOV, R.G.; DALIN, M.A.; ALIYEV, D.A.; IVANOVA, T.M.

Thermal stabilization of a crude wide aromatic fraction of  
pyrolysis products. Izv. vys. ucheb. zav.; neft' i gaz #  
no.2:51-54 '65. (NFM 19:3)

1. Azerbaydzhanskiy institut nefti i khimii im. N. Avirbekova  
i Sovet narodnogo khozyaystva AzerbDSR.

PERELOM' V. V. SIVANOV, V. V.; DALIN, M. A.

Conversion of  $\alpha$ -butylene by dehydrogenation of n-butyl alcohol on  
magnesium oxide. Kin. i Kinet. 6 no.4:374-374; Jl-Ag 165. (VNIKA 1619)

1. Vsesoyuznyy nauchno-issledovatel'skiy tekhnologicheskiy institut  
po polucheniyu i pererabotke nizkopolimeriziruyushchikh olefinov.

DALIN, M.A.; SEREBRYAKOV, B.R.; MANGASARYAN, N.A.; ABAYEV, G.N.;  
VALLERSHTEYN, A.S.

Synthesis of acrylonitrile by oxidative ammonolysis of propylene  
in a fluidized catalyst bed. Azerb.khim.zhur. no.4:28-33 '65.  
(MIRA 18:12)

1. VNIIolefin. Submitted August 16, 1964.

DALIN, M.A.; MEKHTIYEV, S.I.; SHENDERova, R.I.; RASULBEKOVA, T.I.

Synthesis of methacrylic acid nitrile in the presence of new  
catalysts. Dokl. AN Azerb. SSR 21 no.6:22-25 '65.  
(MIRA 18:12)

1. Institut neftekhimicheskikh protsessov AN AzSSR.

L 01153-66 EWT(m)/EPF(c)/EWP(j)/T RPL WW/RM

ACCESSION NR: AP5022004

UR/0286/65/000/014/0077/0077  
678.742.2-134.23

48

AUTHOR: Dalin, M. A.; Bakhshi-Zade, A. A.o.; Kambarov, Yu. G. o.; Seidov, N. M. o.; Chirkov, N. M.; Tsvetkova, V. I.; Lisitsyn, D. M.; Arutyunov, I. A.

TITLE: A method for producing an ethylene propylene elastomer. Class 39,  
No. 172989 15

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 77

TOPIC TAGS: elastomer, ethylene, propylene, copolymerization, polymerization catalyst

ABSTRACT: This Author's Certificate introduces a method for producing an ethylene propylene elastomer by copolymerization of ethylene with propylene in a solvent in the presence of an organometallic Ziegler catalyst. Copolymerization is simplified by using liquid propylene as the solvent.

ASSOCIATION: none

SUBMITTED: 05Jul61

NO REF Sov: 000

ENCL: 00

OTHER: 000

SUB CODE: MT

Card 1/1 DP

L 4275-66 EWT(m)/EPF(c)/EWP(j)/T RPL RM/WW

ACCESSION NR: AP5024482

UR/0316/65/000/003/0073/0079

AUTHOR: Seidov, N. M.; Dalin, M. A.; Kambarov, Yu. G.; Arutyunov, I. A.; Bakhshizade, A. A.

44.5 50  
44.5 47

TITLE: Preparation of an ethylene-propylene elastomer in a liquid propylene medium

SOURCE: Azerbaydzhanskiy khimicheskiy zhurnal, no. 3, 1965, 73-79

TOPIC TAGS: ethylene, propylene, copolymerization, vanadium compound, organo-aluminum compound, polymerization catalyst

ABSTRACT: Certain relationships were studied in the copolymerization of ethylene with propylene between -20 and +50C in the presence of the catalytic system  $VCl_4 + (i-Cl_4H_9)_2AlCl$  in liquid propylene. The yield of the copolymer was found to be strongly dependent on the quantity of trace impurities present in the monomers: traces of allene and methylacetylene, which are catalyst poisons, sharply reduce this yield. As the temperature rises, the yield and molecular weight of the copolymer decrease. Ethylene is the copolymerization activator; as its content increases, the molecular weight of the copolymer also increases. In the presence of the above catalytic system, the relative activity of ethylene is 802 times as high as that of propylene. It is shown that the copolymer com-

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L 4275-66

ACCESSION NR: AP5024482

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position can be easily regulated by changing the composition of the liquid phase. Orig.  
art. has: 5 figures and 2 tables.

ASSOCIATION: VNIIolefin 4455

SUBMITTED: 05May64

ENCL: 00

SUB CODE: MT, GC

NO REF SOV: 003

OTHER: 011

Card 2/2 JP

10874-66 EWT(m)/EWP(j)/T RPL NW/RM  
ACC NR: AP5025865 44,55

SOURCE CODE: UR/0020/65/164/004/0826/0827

AUTHOR: Seidov, N. M.; Dalin, M. A. (Academician AN AzerbSSR); Kyazimov, S. M. 44,51

ORG: None

TITLE: Preparation of an ethylene-butylene elastomer in a liquid butylene medium 34

SOURCE: AN SSSR. Doklady, v. 164, no. 4, 1965, 826-827

TOPIC TAGS: elastomer, ethylene, butene, copolymer 44,55

ABSTRACT: Ethylene was copolymerized with 1-butene in the presence of the catalyst system VC1<sub>4</sub> + (iso-C<sub>4</sub>H<sub>9</sub>)<sub>2</sub>AlCl / (a 5-7% solution in benzene) in an autoclave. As the ethylene content in the liquid phase rose, the reaction rate and yield of copolymers increased, and as the temperature was raised, the yield and molecular weight of the copolymer decreased. By determining the content of ethylene and butylene in the copolymer chain by IR spectra, it was possible to establish the relationship between the copolymer composition and the ratio of ethylene to butylene in the liquid phase. As the butylene content increased, the crystallinity of the copolymer diminished. From the copolymers obtained, rubber mixtures were prepared which were vulcanized with dicumyl peroxide. The higher the butylene content of the copolymers, the easier they were to mill and mix with the ingredients. A copolymer vulcanizate containing 33.5 mole % butylene in the copolymer chain was found to have very good physicomechanical properties. Orig. art. has: 4 figures and 2 tables.

SUB CODE: 07 SUBM DATE: 15Jan65 / ORIG REF: 002 / OTH REF: 007  
Card 1/1 86

L 39092-66 EWT(m)/EWP(j)/T IJP(c) FDN/MM/RM

ACC NR: AP6010662 (A) SOURCE CODE: UR/0152/65/000/010/0059/0059

AUTHOR: Saidov, N. M.; Arutyunov, I. A.; Dalin, M. A.39  
37

B

ORG: Azerbaydzhan Petroleum and Chemistry Institute im. M. Azizbekov (Azerbaydzhan-skiy institut nefti i khimii); VNIIOLEFINTITLE: Low-temperature copolymerization of ethylene and propylene

SOURCE: IVUZ. Neft' i gaz, no. 10, 1965, 59

TOPIC TAGS: copolymer, ethylene, propylene, synthetic rubber, elastomer,  
*Copolymerization*

ABSTRACT: The copolymerization of ethylene and propylene was conducted in liquid propylene in the presence of the catalytic system  $\text{VOCl}_3\text{-Al}(\text{iC}_4\text{H}_9)_2\text{Cl}$  in order to obtain an amorphous ethylene-propylene copolymer having elastomeric properties. The temperature of the experiment has a substantial effect on the copolymerization rate, copolymer yield, and molecular weight of the product. As the temperature drops, the rate of the process becomes stabilized, and the catalyst has a longer life. The copolymer yield increases from 1200-1500 g/g  $\text{VOCl}_3$  at  $+50^\circ\text{C}$  to 3000-3500 g/g  $\text{VOCl}_3$  at  $-20^\circ\text{C}$ , and the ash content becomes so slight that the removal of catalyst traces may be unnecessary. On the other hand, the temperature drop causes the molecular weight of the ethylene-propylene rubber to increase, reducing its workability on existing equipment. This disadvantage can be eliminated either by lowering the molecular

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L 39092-66

ACC NR: AP6010662

2

weight of the product by performing the copolymerization in the presence of hydrogen, or by plasticizing the high molecular copolymer with oils. The physicomechanical properties of vulcanizates prepared from such a copolymer (plasticized with various amounts of PN-6 oil) were measured, and found to surpass those prepared from unplasticized copolymers; this is attributed to a thorough mixing of the ingredients of the rubber mixture in the presence of softeners. Ethylene-propylene rubber obtained in the presence of hydrogen was found to have a good workability on rolls and to mix with the ingredients without softeners. Vulcanizates prepared from this rubber had high physicomechanical properties. Orig. art. has: 1 table.

SUB CODE:11,07/ SUEM DATE: 27Aug65/

L 08003-67 EMR(m)/EMR(j) RM  
ACC NR: A16011841

SOURCE CODE: UN/0249/65/01/006/0022/0025

AUTHOR: Dalin, M. A.; Mekhtiyov, S. I.; Shenderova, R. I.; Risulbekova, T. I.

ORG: Institute of Petrochemical Processes (Institut neftekhimicheskikh protsessov)

TITLE: Synthesis of methacrylonitrile, using new catalysts

SOURCE: AN AzerbSSR. Doklady, v. 21, no. 6, 1965, 22-25

TOPIC TAGS: organic synthetic process, resin, ACRYLONITRILE

ABSTRACT: The article describes the continuation of the author's work on this analysis, published in Doklady AN SSSR, 1964, vol. 1, no. 4, p 154. Two catalysts, no. 101 and no. 2, were tried, using the optimal conditions of synthesis (420°C, 3 sec contact time, mole ratio equal 1:2:2.5; (1+3) for iso-C<sub>4</sub>H<sub>8</sub>:NH<sub>3</sub>:O:H<sub>2</sub>O). With no. 101, the selectivity of the process increased to 60%, conversion of iso-butylene to 85-90%, and the yield of methacrylonitrile reached 51-54%. The results, using no. 2, are tabulated. An infrared spectrum of methacrylonitrile is given. Orig. art. has: 3 fig. and 1 table.

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L 08903-67

ACC NR: AP6011841

Table 1.

Conversion, %			yield of the basic products in weight% calculated with respect to the iso-C <sub>4</sub> H <sub>8</sub> reacted					
iso-C <sub>4</sub> H <sub>8</sub>	NH <sub>3</sub>	O <sub>2</sub>	MN	AN	HCN	CH <sub>3</sub> CN	CO <sub>2</sub>	Total
79,8	95,5	—	67,5	—	7,43	10,8	10,3	96,0
68,8	—	96,2	69,2	1,5	7,36	15,9	6,0	100
39	—	94,4	71,2	1,0	8,36	10,1	7,3	97,9

SUB CODE: 11/ SUBM DATE: 18Nov64/ ORIG REF: 001/ OTH REF: 006

Card 2/2

L 46997-66 EWP(j)/EWT(m)/T IJP(c) RM/NW  
ACC. NR: AP6027270 (A) SOURCE CODE: UR/0191/66/000/008/0004/0005

AUTHOR: Dalin, M. A.; Buniyat-Zade, A. A.; Bulatnikova, E. L.

32

30

B

ORG: none

TITLE: Synthesis and study of copolymers of ethylene and  $\alpha$ -butylene

SOURCE: Plasticheskiye massy, no. 8, 1966, 4-5

TOPIC TAGS: copolymer, ethylene, butylene

ABSTRACT: Ethylene was copolymerized with  $\alpha$ -butylene obtained by dimerization of ethylene on organometallic catalysts (instead of  $\alpha$ -butylene resulting from dehydration of n-butanol). The copolymerization was carried out in autoclaves (1) under conditions in which the polymer precipitated (80-90°C) and (2) in solution (120-130°C). IR spectroscopic analysis of the product showed that when the initial gas contained 5.3 vol. %  $\alpha$ -butylene, only 2 vol. % of the latter entered into the composition of the copolymer. The cracking resistance of the copolymer was found to exceed that of polyethylene obtained under the same conditions by a factor of 8 to 10. The copolymers showed a high degree of stability toward thermal-oxidative degradation. Of the antioxidants studied, the best was bis(5 methyl-3- $\alpha$ -phenylethyl-2-hydroxyphenyl) sulfide. The copolymer stabilized with this antioxidant had an induction period of about 250 min, whereas in an unstabilized sample this period was about 70 min. The induction period was found to increase with the crystallinity of the copolymer. The product of

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UDC: 678.742.2-137.424.01

L 46997-66

ACC NR: AP6027270

ethylene dimerization was kindly supplied by I. I. Pl's'man, and bis(5-methyl- $\beta$ -a-phenylethyl-2-hydroxyphenyl) sulfide by F. M. Yegidis, both of whom are thanked by the authors. Orig. art. has: 3 figures and 1 table.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 002

✓  
Card 2/2

L 23709-66 EWT(m)/EVP(j)/T LJP(c) RM/WW  
ACC NR: AP6009425 (A)

SOURCE CODE: UR/0020/66/166/006/1376/1377

AUTHOR: Seydov, N. M. (Academician AN AzerbSSR); Dalin, M. A.; Abasov, A. I.

ORG: All-Union Scientific Research Technological Institute on the Synthesis and Processing of Low-Molecular Olefins (Vsesoyuznyy nauchno-issledovatel'skiy tekhnologicheskiy institut po polucheniyu i pererabotke nizkomolekularnykh olefinov); Experimental Plant, Baku (Opytnyy zavod)

TITLE: Copolymerization of ethylene and propylene in a liquid propylene medium

SOURCE: AN SSSR. Doklady, v. 166, no. 6, 1966, 1376-1377

TOPIC TAGS: ethylene, propylene, copolymerization

ABSTRACT: A study of the copolymerization of ethylene and propylene in the presence of vanadium triacetylacetone (catalyst) with diisobutylaluminum chloride (cocatalyst) in liquid propylene is described. The components of the catalyst system were fed separately into the reaction zone in a stream of nitrogen: the catalyst in a 5% benzene solution and the cocatalyst in a 5% ligroin solution. The experiments were carried out in the -20° to +50°C range with an ethylene content of 4 to 15 mol % in the liquid phase. It was found that as the Al/V molar ratio increases, the yield of copolymer goes through a maximum and the intrinsic viscosity of the copolymer simultaneously decreases. The composition of the liquid phase and temperature have a more substantial effect on the copolymerization process. Thus, as the ethylene content of the li-

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UDC: 678-13

L 23709-66

ACC NR: AP6009425

quid phase rises, the molecular weight and yield of the copolymer increase and the reaction rate is accelerated. At the same time, the average lifetime of the catalyst becomes appreciably shorter. A stable reaction rate is observed at a 4% content of ethylene. As the temperature rises, the intrinsic viscosity of the copolymer falls off. From the copolymers obtained, a rubber mixture was prepared which was vulcanized with the aid of dicumyl peroxide. Orig. art. has: 1 figure, 2 tables.

SUB CODE: 07/ SUBM DATE: 26May65/ ORIG REF: 002/ OTH REF: 009

Card 2/2 *her*

DALIN, M.V.; MATS, A.N.; MARKOVICH, I.N.

Effect of vitamin B<sub>1</sub> (thiamine) on immunogenesis in ascariasis  
[with summary in English]. Med.paraz. i paraz.bol. 27 no.6:  
718-723 N-D '58. (MIRA 12:2)

1. Iz kafedry obshchey biologii I Moskovskogo oredena Lenina me-  
ditsinskogo instituta imeni I.M. Sechenova (zav. kafedroy - prof.  
F.F. Talyzin).

(VITAMIN B<sub>1</sub> effects,  
on immunogenesis in ascariasis in animals (Rus))  
(ASCARIASIS, immunology,  
eff. of vitamin B<sub>1</sub> on immunogenesis (Rus))

DALIN, M. V.

"Vagotonia in Ascariasis."

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 26-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

First Moscow Medical Institute

DALIN, M.V.

Cholinesterase activity and acetylcholine of the blood serum in  
experimental ascariasis. Med.paraz.i paraz.bol. 29 no.4 8434-  
440 Jl-Ag '60. (MIRA 13:11)

1. Iz kafedry obshchey biologii (zav. - prof. F.F. Talyzin)  
I Moskovskogo ordena Lenina meditsinskogo instituta imeni  
I.M. Sechenova.  
(ASCARIDS AND ASCARIASIS) (CHOLINESTERASE) (CHOLINE)

DALIN, M. V., Cand. Med. Sci., -- (diss) "Stimulation of insusceptibility to ascariasis with vitamin B<sub>1</sub>," Moscow, 1961, 19 pp (All-Union Institute of Helminthology im. Acad. K. I. Skryabin), 250 copies (KL-Supp 9-61, 189)

FROLOVA, M.A.; KRASNOPROSHINA, L.I.; DALIN, M.V. (Moskva)

Changes in the quantity of acetylcholine and the activity of cholinesterase in allergic processes running concurrently. Pat. fiziol. i eksp. terap. 4 no.3:72-73 My-Je '60. (MIRA B:7)

1. Iz kafedry mikrobiologii (zav. - prof. M.N. Lebedeva) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.  
(ALLERGY) (CHOLINE) (CHOLINESTERASE)

DALIN, M.V.

Quantitative determination of antiascaride antibodies in pulmonary ascariasis. Med.paraz.i paraz.bol. no.3:337-340 '61.

(MIRA 14:9)

1. Iz kafedry obshchey biologii I Moskovskogo ordena Lenina meditsinskogo instituta (zav. kafedroy - prof. F.F. Talyzin).  
(ASCARIDS AND ASCARIASIS) (LUNGS—DISEASES)  
(ANTIGENS AND ANTIBODIES)

DALIN, N.V.

Amount of antiascarid antibodies in serum globulin fractions  
of rabbits with pulmonary ascariasis. Dokl. AN SSSR  
no.5:1254-1257 Ag. '61. (MIR14:8)

1. Predstavleno akademikom V.T. Skryabinym.  
(ASCARIDS AND ASCARIASIS)  
(GAMMA GLOBULIN).

DALIN, M.V.

Desensitization in ascariasis. Biul.eksp. biol. i med. 51 no.1:  
70-73 Ja '61. (MIRA 14:5)

1. Iz kafedry obshchey biologii (zav. - chlen-korrespondent AMN  
SSSR prof. F.F.Talyzin) I Moskovskogo ordena Lenina meditsinskogo  
instituta imeni I.M.Sechenova. Predstavlena deystvitel'nym chленом  
AN SSSR K.I.Skryabinym.

(ASCARIDS AND ASCARIASIS) (THIAMINE)

DALIN, M. V.

Influence of thiamine on the cholinesterase activity and the quantity of acetylcholine in the blood serum in experimental ascariasis. Med. paraz. i paraz. bol. no.6:661-666 '61.  
(MIRA 15:6)

1. Iz kafedry obshchey biologii I Moskovskogo ordena Lenina meditsinskogo instituta imeni I. M. Sechenova (zav. kafedroy - prof. F. F. Talyzii)

(THIAMINE) (CHOLINESTERASE) (CHOLINE)  
(ASCARIDS AND ASCARIASIS)

DALIN, M.V.

Behavior of the total albumin of the serum of the blood during experimental ascariasis. Acta veter Hung 12 no.4:455-463 '62.

1. Kafedra obshchey biologii (zav. chlen-korr. AMN SSSR prof. F.F. Talyzin) 1-ya Moskovskogo Ordena Lenina Meditsinskogo instituta im. Sechenova.

FROLOVA, M.A.; DALIN, M.V.; TEPERIKHINA, N.P.; KRASNOV, V.I., I.I.

Methodology for studying quantitative changes in nucleic acids  
during the immunization process. Vak. i syv. no.1:23-435 '53.  
(MIRA 38:8)

I. Institut vaktsin i syver-tok im. Michur'kova i kafadra tsitologii  
biologii 1-ego Moskovskogo ordena Lenina meditsinskogo instituta im.  
I.M.Sechenova.

FROLOVA, M.A.; DALIN, M.V.; PEREPECHKINA, N.P.

Dynamics of changes in the content of nucleic acid during the process of immunogenesis. Zhur. mikrobiol.; epid. i immun. 41 no.6:70-74 Je '64. (MIRA 18:1)

1. Moskovskiy institut vaktsin i syvorotok imeni Mechnikova i I-iy Moskovskiy ordena Lenina meditsinskiy institut imeni Sechenova.

TALYZIN, F.F.; YURKOVA, I.B.; DALIN, M.V.; MESHALOV, A.S.

Nucleic acids in the organs and tissues in poisoning by Vipera  
lebetina venom. Biul.eksp.biol.i med. 57 no.5:45-49 My '64.  
(MIRA 18:2)

1. Kafed'ya obshchey biologii i Moskovskogo ordena Lenina  
meditsinskogo instituta imeni Sechenova i Institut vaktsin i  
syvorotok imeni Mechnikova. Submitted May 25, 1963.

43867-65

ACCESSION NR: AP5010855

UR/0286/65/000/007/0021/0021  
1  
0

AUTHORS: Dulin, M. V.; AOKOVA, T. S.

TITLE: A method for obtaining an immuno-  
sorbent. Class 12, No. 169507

SOURCE: Byulleten' Izobretaniy i tovarov ikh znakov, no. 7, 1965, 21

TOPIC TAGS: immunosorbent, cellulose ester, nitrogenation, antigen

ABSTRACT: This Author Certificate presents a method for obtaining an immunosorbent by combining dinitrogenated cellulose ester with an antigen. To simplify the process, aminated cellulose ester is used as the basic material.

ASSOCIATION: none

SUBMITTED: 19 Jun 65

ENCL: 0

SUB CODE: LS, 00

NO REF Sov: 000

OTHER: 00

L  
Card 1/1

DALIN, Sergey Alekseyevich; LYUBIMOV, V.Y., doktor ekon. nauk,  
otv. red.; USVYATSEV, A.Ye., red. izd-va; SIMKINA, G.S.,  
tekhn. red.

[Military and state monopolistic capitalism in the U.S.A.]  
Voenno-gosudarstvennyi monopolisticheskii kapitalizm v  
SShA. Moskva, Izd-vo Akad. nauk SSSR, 1961. 350 p.  
(United States--Capitalism) (MIRA 14:5)  
(United States--Economic policy)

DALIN, V. N.

Cand Agr Sci - (diss) "Experience in the commercial interbreeding of large horned cattle of the ostfrizkaya variety with the red datskaya and the sychevskaya varieties under conditions of the Kalininskaya Oblast." Moscow, 1961. 21 pp; (Moscow Order of Lenin Agricultural Academy imeni K. M. Timiryazev); 200 copies; price not given; (KL, 5-61 sup, 197)

DALIN, V.N., aspirant

Possibilities of increasing meat yields of East Friesian cattle  
in Kalinin Province. Zhivotnovodstvo 22 no.2:33-36 F '60.  
(MIRA 15:11)

1. Vsesoyuznyy institut zhivotnovodstva.  
(Kalinin province--Beef cattle)

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000509530006-3

DALIN, V. N.

DALIN, V. N. -- "INVESTIGATION OF SYSTEM OF VARIOUS MEASURES OF PROTECTION AGAINST THE AIRPLANE." (ABR. 18 MAY 32, MINISTRY OF STATE AVIATION IN THE USSR) (TO ENCL. NO. 1)  
(DRAFTED BY THE GROUP OF CANDIDATE IN TECHNICAL EXPERTISE)

30: VICHERNAYA MOLOKVA, JANUARY-DECEMBER 1952

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000509530006-3"

DALIN, Valeriy Nikitich, kandidat tekhnicheskikh nauk; IGNAT'YEVA, A.V.,  
kandidat fiziko-matematicheskikh nauk, redaktor; KUZNETSOVA,  
A.G., izdatel'skiy redaktor; PUKHLIKOVА, N.A., tekhnicheskiy  
redaktor.

[Investigating heating systems of airtight cabins of passenger  
planes]. Issledovanie sistem panel'nogo obogрева герметиче-  
ских кабин пассажирских самолетов. Moskva, Gos. izd-vo  
obor. promsvchl. 1957. 37 p. (Moscow. Aviatsionnyi institut.  
Trudy, no.80).  
(Airplanes--Heating and ventilation)  
(MIRA 10:6)

PHASE I BOOK EXPLOITATION

SOV/6113

Dalin, Valeriy Nikitovich

Proyektirovaniye elementov konstruktsiy samoletov i vertoletov; posobiye po kursovomu i diplomnomu proyektirovaniyu (Designing Structural Elements of Airplanes and Helicopters; Textbook for Term and Degree Projects). Moscow, Oborongiz, 1962. 77 p. 6650 copies printed.

Sponsoring Agency: Ministerstvo vysshego i srednego spetsial'nogo Obrazovaniya RSFSR. Moskovskiy ordena Lenina aviationsionnyy institut imeni Sergo Ordzhonikidze.

Managing Ed.: A. S. Zaymovskaya, Engineer; Ed.: V. M. Tokar'; Tech. Ed.: V. P. Rozhin.

PURPOSE: The book is a textbook for term and degree projects for students in advanced courses at aviation schools of higher education.

COVERAGE: The book discusses the selection of materials and type of blanks, shape and cross-section of individual components, methods of joining them, etc. from the point of view of insuring the minimum weight and cost of aircraft structures. Based on both Soviet and non-Soviet general practices,

Card 1/3

Designing Structural Elements (Cont.)

SOV/6113

it discusses design and technological methods of increasing the strength and durability of parts, types of joints, the design sequence of some units, types of packing, etc.

TABLE OF CONTENTS [Abridged]:

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II. Methods of Assuring the Minimum Weight and Cost of the Structural Elements of Aircraft and Helicopters	7
III. Design and Technological Factors Affecting the Fatigue Strength of Components	20
IV. Means of Joining Components	48
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Card 2/3

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VI. Packing of Units	66
VII. Compensators [for Deformation, Wear, and Clearance]	72
VIII. Some Recommendations for Designing Control-Operating Rods	74
IX. Chamfers and Hollow Chamfers	75
AVAILABLE: Library of Congress	
SUBJECT: Aerospace	

DALIN, V.V., dotsent

"Electromedical (physiotherapeutic) apparatus; working principles,  
operation and resepir" by N.M.Liventsev. Reviewed by V.V.Dalin.  
Vop.kur.fizioter. i lech.fix.kul't. 21 no.4:101-103 O-D '56.

(MLRA 9:12)

(ELECTROTHERAPEUTICS--APPARATUS AND INSTRUMENTS)  
(LIVENTSEV, N.M.)

AUTHOR: Dalin, V.V. SOV/115-58-1-16/50

TITLE: A Simplified Stroboscope (Uproshchennaya ustanovka dlya stroboskopicheskikh izmereniy)

PERIODICAL: Izmeritel'naya tekhnika, 1958, Nr 1, pp 30 - 31 (USSR)

ABSTRACT: The article describes a stroboscope developed by the Moskovskiy energeticheskiy institut (Moscow Power Engineering Institute). The device is simple and can be assembled and adjusted within 2 - 3 days. The cost of the parts is about 200 rubles. It is small (20x15x15 cm), weighs 1.5 kg, yet produces a good illumination of the disc and is highly accurate and reliable. It was tested, and a diagram (Fig. 2) was prepared which shows a clearly defined range of the electric impulses lengths at which the stroboscope "star" of 1.5 mm wide lines is clearly seen in a normally lit room. A standard radiotransformer, ELS-2, was used as power source. There are 2 diagrams.

1. Stroboscopes---Design    2. Stroboscopes---Operation  
3. Pistons---Friction    4. Friction---Measurement

Card 1/1

VIL'DGRUBE, G.S.; DALIMENKO, N.K.; RAZUMOVSKAYA, A.I.

Photoelectron multiplier with a flat front window. Prib. i  
tekhnika 6 no.4:74-76 Jl-Ag '61. (MIRA 14:9)  
(Photoelectric multipliers)

9.4/60

27482  
S/048/61/025/009/007/007  
B104/B102

AUTHORS: Vil'dgrube, G. S., Dalinenko, N. K., Dunayevskaya, N. V.,  
and Ronkin, Zh. M.

TITLE: Light-pulse characteristics of louver-type photomultipliers

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 25,  
no. 9, 1961, 1183 - 1185

TEXT: This paper was read at the 9th Annual Conference on Nuclear Spectroscopy. The photomultipliers mentioned in the legend to Fig. 1 were tested with a device described in a previous paper (Vil'dgrube, G. S., et al., Izv. Ak. nauk, ser. fiz., 25, no. 9, 1961). The output-signal amplitude of the photomultiplier is estimated from the voltage of a square pulse measured with an МВИ1М(МВИ1М) voltmeter in the anode circuit of the photomultiplier. Pulses of 2usec duration were fed to a ЗЛК-1 (ZLK-1) tube. The light intensity was varied with light filters. The pulse-repetition frequency was 50 cps. Fig. 1 indicates that photomultipliers with alloyed emitters can be used under forced conditions with pulse durations and pulse-repetition frequencies (Fig. 1, curves 1 - 5, 7)

Card 1/3

Light-pulse characteristics of...

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B104/B102

exceeding those of photomultipliers with antimony-cesium emitters (curve 6). In this case, the limit of linearity of the light-pulse characteristic is determined by the resistance of the anode. On the basis of statistical material, the authors make a suggestion for the choice of optimum voltage dividers designed for continuous operation. The stability of the output current of a photomultiplier operating for 8 hr amounted to 5% both in single-signal operation and at a pulse-repetition frequency of 50 cps. There are 2 figures and 1 Soviet reference.

FIG. 1. Family of light-pulse characteristics for various photomultipliers.  
Legend: (1) ФЭУ-49 (FEU-49); (2) ФЭУ-25 (FEU-25); (3) ФЭУ-11 (FEU-11);  
(4) ФЭУ-ЕМІ-9558 (FEU-YeMI-9558); (5) ФЭУ-19M (FEU-19M (alloyed));  
(6) ФЭУ-19 (FEU-19); (7) ФЭУ-1В (FEU-1V).

Card 2/3

VIL'DGRUBE, G.S.; DALINENKO, N.K.; DUMA ZEVSKAYA, N.V.; RONIN, Zh.M.

Methods of study and stability of louver-type photomultipliers.  
Prib. i takh. eksp. 8 no.5:167-172 S-0 '63. (MIKA 16:12)

L M332-65 ENT(1)

ACC NR: AP6022036

SOURCE CODE: UR/0120/66/000/003/0212/0213

AUTHOR: Dalinenko, N. K.; Razumovskaya, A. I.ORG: Nuclear Physics Institute, SO AM SSSR (Institut yadernoy fiziki SO AM SSSR)TITLE: Photomultiplier sensitive in the ultraviolet spectral regionSOURCE: Pribory i tekhnika eksperimenta, no. 3, 1966, 212-213

TOPIC TAGS: photomultiplier, photoelectric effect

ABSTRACT: The design, basic characteristics and parameters of a photomultiplier sensitive in the ultraviolet region are briefly described. The photomultiplier, bearing the designation FEU-57, is several orders of magnitude more sensitive in the ultraviolet than it is in the visible spectral region. It has a plane frontal window of uvioil glass and a photocathode with an effective diameter of 44 mm. The photomultiplier (maximum length, 120 mm; diameter, 52 mm) has a tellurium-cesium photocathode. Its spectral characteristics are measured by a dual monochromator beginning at 2200 Å using a hydrogen lamp as the light source. The spectral sensitivity of the photocathode for three FEU-57's in absolute units with quantum yield of 0.5%, 5% and 9% is given in the accompanying figure. The photomultiplier has an average gain of about  $10^5$  to  $10^6$  at a 1700-v operating voltage. The output dark current is

Card 1/2

UDCI 621.383.5

I. 34382-66

ACC NR: AP6022036

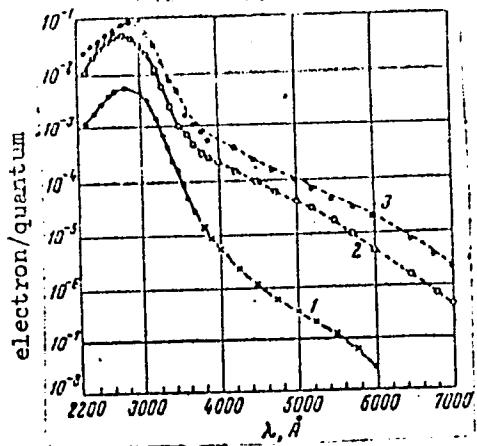


Fig. 1. Spectral sensitivity of the FEU-57  
in absolute units

- 1 - Photocathode with a 0.5% quantum yield;  
2 - photocathode with a 5% quantum yield;  
3 - photocathode with a 9% quantum yield.

within  $10^{-9}$ — $10^{-11}$  a at the same operating voltage. Orig. art. has: 4 figures. [JR]

SUB CODE: 09/ SUBM DATE: 10May65/ ORIG REF: C03/ OTH REF: 002/ ATD PRESS:

5034

Card 2/2 J

GOLD'BERG, D.I., prof.; LEVINA, G.D.; DALINGER, L.M.; KARPOVA, G.V.;  
GOL'DBERG, Ye.D.; TETERIMA, V.I.; IAVROVA, V.S.; TIMAKIN, N.P.;  
GOL'DBERG, A.I.; CHERNOVA, Ye.A.

Clinical significance of erythrocytometry. Probl. gemat. i perel.  
krovi 9 no.10:8-14 O '64. (MIRA 18:3)

1. Tomskiy meditsinskiy institut.

ACCESSION NR: A9045613

S/0000/64/000/000/0157/0157

AUTHOR: Delinina, Ye. V. (Candidate of technical sciences, Head of a sector of laboratory for high tension techniques); Mernikov, S. D. (Candidate of technical sciences, Senior research associate); Solomin, N. M. (Candidate of technical sciences, Senior research associate); Tikhodeyev, N. N. (Candidate of technical sciences, Head of laboratory for high tension techniques)

TITLE: Electrical characteristics of insulators used on 500 kv lines

SOURCE: Dal'niye elektroperedachi 500 kv (long-distance transmission of 500 kv electric power), sbornik statey. Moscow, Izd-vo Energiya, 1964, 147-153

TOPIC TAGS: high voltage line, power line, electric power transmission, insulator, insulator chain, breakdown voltage, disruptive voltage, flashover

ABSTRACT: The disruptive voltages of insulator chains were measured to help select the proper insulator system for a 500 kv power line. The types of insulators investigated were the P-7, P-8, P-9, P-11 and the new alkaline glass types PM and PS. Results obtained in the laboratory and in the field for dry insulators showed that discharge in this case takes place through the air (between shielding and support structure); the results are summarized in Fig. 1 of the Enclosure. Protective shielding increases the disruptive voltage by about 10%. For wet insulators, the discharge takes place mostly over the surface of the insulator and the disruptive voltage varied almost linearly with the number of insulators in the chain; it can

ACCESSION NR. AT4045013

therefore be characterized by a voltage gradient  $E_m$ , which generally increases with a decrease in H/D, i.e., the ratio of insulator height to the diameter of its disc. For P-type insulators with H/D = 0.63,  $E_m = 210$  kv/m, for PM-insulators with H/D=0.51-0.55,  $E_m=280$  kv/m. The flashover characteristics of insulator chains were then investigated at the constant voltages. These were also found to increase linearly with the number of insulators in the chain and the voltage gradient in this case varied with atmospheric conditions and the amount of dirt collected on the insulators. Correspondingly, the required number of insulators in a chain for a 500 kv line varies depending upon which criterion is used and is generally largest for a wet insulator or heavy rains (22 for P-7 insulator), the average being about 19.

The impulse disruptive voltages simulating lightning conditions were investigated and it was found that for a chain of twenty P-8.5 insulators, the disruptive voltage varied between 1600 and 2500 kv depending on the polarity and presence or absence of shielding. Orig. art. has: 3 figures and 4 tables.

ASSOCIATION: Laboratoriya tekhniki vysokikh napryazhenii, Nauchno-issledovatel'skiy institut postoyannogo toka (Laboratory for High-Tension Techniques, Scientific Research Institute for Direct Current).

Card 2/4

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000509530006-3

ACCESSION NR. AT4046012

SUBMITTED: 13MARCH4

ENCL: 01

SUB CODES: RR

NO REV Sov: 000

OTHER: 000

Card 3/4

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000509530006-3"

ACCESSION NR.: A14045613

ENCLOSURE: 01

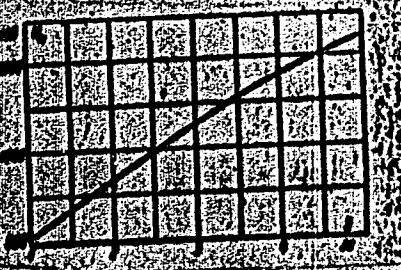


Fig. 1. Dependence of the disruptive voltage of a dry disc insulator chain with shielding on the length of the chain.

Card 4/4

DALINKEVICIUS, J.A.

Geological research in Lithuania. Och.po ist.geol.znan. no.3:  
165-182 '55. (MLRA 8:10)  
(Lithuania--Geology)

GARUNKSHTENE, S.S.[Garunkstiene, S.]; GRIGALIS, A.A.[Grigelis, A.],  
kand. geo.-miner. nauk; VONSAVICHYUS, V.P.[Vonsavicius, V.],  
red.; GAYGALAS, A.I.[Gaigalas, A.], red.; DALINKEVICHYUS,  
I.A.[Dalinkevicius, J.], red.; KAZAKOVA, V.A., red.;  
KISNERYUS, Yu.L.[Kisnerius, J.], red.; CHEPULITE, V.A.  
[Cepulyte, V.]., red.

[Study of the geology of the U.S.S.R.] Geologicheskiaia izu-  
chennost' SSSR. Vil'nius, Mintis. Vol.43. No.1. 1964. 244 p.  
(M.I.A 18:10)

DALINKAČIUS, J. A.

TOGRAPHY & GEOLOGY

M. ESLIMAT PRASIBAI.

DALINKAČIUS, J. Permian formation of Lithuania and western Latvia  
(Courland). In Russian. p. 149.

Vol. 8. 1958.

Monthly List of East European Accession (MEA) LC Vol. 8, no. 3  
March 1959, unclass.

KARATAJUTE-TALIMAA, V., red.; NARIBUTAS, V., red.; BLINSTUBAS, S., doktor tekhn. nauk, red.; GARUNKSTIS, A., kand. geogr. nauk, red.; GRIGELIS, A., kand. geol.-min. nauk, red.; DALINKEVICIUS, J., doktor geol.-min. nauk, red.; KONDATAS, A., kand. geol.-min. nauk, red.

[Problems of the Devonian stratigraphy and paleogeography of the Baltic region] Voprosy stratigrafii i paleogeografii devona Pribaltiki; doklady. Vilnius, Mintis, 1964. 145 p.  
(MIRA 18:6)

1. Soveshchaniye po stratigrafii i paleogeografii devona Pribaltiki. Vilnius, 1962. 2. Chlen-korrespondent AN Litovskoy SSR (for Dalinkevicius). 3. Institut geologii Gosudarstvennogo geologicheskogo komiteta SSSR, Vilnius (for Karatajute-Talimaa, Narbutas).

DALINKEVICHYUS, I.A.

Precise age determination of the lower Cretaceous sediments  
of the Lithuanian S.S.R.; brief report. Trudy VMIGNI no.29:  
59-60 vol.3 '61. (MIRA 14:9)  
(Lithuania--Geology, Stratigraphic)

GRIGYALIS, A.A.[Grigelis, A.], kand. geol.-min. nauk, at.v. red.;  
VONSAVICHYUS, V.P. [Vonsavicius, V.], red., GUDYALIS,  
v.K. [Gudelis, V.], red.; DALINKEVICHYUS, I.A.  
[Dalinkevicius, J.], red.; KAZAKOVA, V.A., red.;  
KISNERIUS, Yu.L. [Kisnerius, J.], red.; CHEJULITE, V.A.  
[Cepulyte, V.], red.; ASSOVSKIY, A.N., glav. red.

[Study of the geology of the U.S.S.R.] Geologicheskiaia  
izuchenost' SSSR. Glav. red. A.N.Assovskii i dr. Vil'nius,  
AN Litovskoi SSR. Vol.43.[Lithuanian S.S.R.; the period of  
1800-1955] Litovskaia SSR; period 1800-1955. No.1. [Published  
works] Pechatnye raboty. 1962. 257 p. (MIRA 17:8)

1. Institut geologii i geografii AN Litovskoy SSR (for  
Grigyalis).

DALKALUCHEV, D.

Drying of Grain and Oil Yielding Seeds in Drying Plants for Beet  
Slices of Sugar Refineries. Leka Promishlenost (Light Industry), #10:20:Oct. 1955

TALKALUCHEV, D., inzh.

High-quality ceramic articles if dried under right and proper  
conditions. Leka promishl 2 no.5: 18-19 '53.

DALKALUCHEV, Dim., inzh.

Deferrization of the fine ceramic mass and glazes. Leka  
promishl 2no.8:21--22.

DALKALICHEV, D.

Concerning Processes Proceeding during Kilning of Porcelain. Leka  
Promishlenost (Light Industry), #10:15:Oct. 1955

DALKALUCHEV, DIM.

For Proper Baking of Porcleian Articles. Leka Promishlenost (Light Industry), #11:22:Nov. 1955

DALKAIUCHEV, D.; BUCHVAROV, S.

Production of sanitary-hygienic appliances from semiporcelain. p.29.  
LEKA PRO TISHLENST. (Ministerstvo na lekata i khranitel'nata  
promishlenest) Sotsia. Vol. 5, no. 6, 1956

SOURCE: East European Acquisitions List, (EEAL), Library of  
Congress, Vol. 5, no. 12, December 1956

L 6360-66 ENT(m) DIAAP  
 ACC NR: AP5025262

SOURCE CODE: UR/0386/65/002/004/0197/0200

AUTHOR: Dal'karov, O. D.

19  
18

ORG: none

B

TITLE: Isotopic structure of parity nonconserving nuclear forces

19

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu  
 (Prilozheniye), v. 2, no. 4, 1965, 197-200

TOPIC TAGS: parity principle, Gamma interaction, neutron interaction, nuclear force,  
 weak nuclear interaction

ABSTRACT: The author estimates the possible contribution made to the asymmetry of  
 nuclear emission in the  $\gamma + d \rightarrow n + p$  reaction by the static isovector part of weak  
 internucleon interaction, corresponding to a potential in the form

$$V(r) = V_1(r)(\sigma_1 + \sigma_2)(r/r)[\tau_1 \times \tau_2]_0$$

where  $r$  is the distance between the nucleons and  $\sigma_1$ ,  $\sigma_2$ ,  $\tau_1$ , and  $\tau_2$  are respectively  
 the spin and isospin operators of nucleons 1 and 2. This study of the isotopic selec-  
 tion rules in nuclear transitions which do not conserve parity is of interest from the  
 point of view of SU(3) symmetry of elementary particles which, under the assumption  
 that there are no weak neutral currents, predicts an intensification of the isoscalar  
 part compared with the isovector and isotensor parts. The asymmetry of nucleon emis-  
 sion is defined and an approximate formula is derived for it on the basis of the known

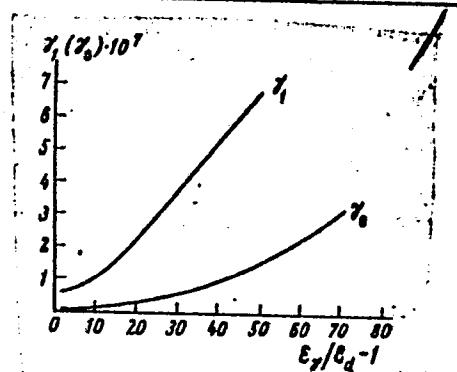
Card 1/2

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ACC NR: AP5025262

Fig. 1. Comparison of the energy dependence of the asymmetry coefficient calculated by the authors ( $\gamma_1$ ) and by Blin-Stoyle and Feshbach ( $\gamma_0$ )



differential cross section of the process. A numerical estimate of the asymmetry coefficient ( $\gamma_1$ ) was made with a potential corresponding to exchange of one charged pion (Fig. 1). For comparison, the figure shows the curve for the analogous coefficient ( $\gamma_0$ ), corresponding to the isoscalar part of the Blin-Stoyle potential (R. J. Blin-Stoyle and H. Feshbach, Nucl. Phys. 27, 395, 1961). Author is grateful to I. F. Shapiro for suggesting the problem and for continuous interest in the work. Orig. art. has: 1 figure and 4 formulas.

SUB CODE: NP/ SUBM DATE: 01Jun65/ ORIG REF: 000/ OTH REF: 006

Card 2/2 Rds

L 22759-66 EWT(m)/T  
ACCESSION NR: AP6008744

SOURCE CODE: UR/0386/66/003/003/0150/0152

AUTHOR: Dal'karov, O. D.

22  
21

ORG: none

B

TITLE: Concerning two-nucleon resonances

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu.  
Prilozheniya, v. 3, no. 3, 1966, 150-152

TOPIC TAGS: differential cross section, proton scattering, deuteron interaction,  
nucleon interaction, nuclear isobar, inelastic scattering, scattering amplitude

ABSTRACT: The author proposes a mechanism explaining the anomalous (width = 250  
MeV) peak observed by G. Belletini et al. (Phys. Lett. v. 18, 167, 1965) in the  
differential cross section of the reaction

$$p + d \rightarrow p + x \quad (1)$$

as a function of the missing mass  $m_x$ , in the vicinity of  $m_x = 2.33 + 0.01$  Gev. In  
this mechanism the incident proton interacts with one of the nucleons of the deu-

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L 22759-66

ACCESSION NR: AP6008744

teron, forming an isobar  $N^*$  which is subsequently scattered inelastically by another nucleon. The isobar chosen is the one with mass  $m_{N^*} = 1.4 + 0.01$  Gev (width 200 Mev) observed by the same group in the reaction  $p + \bar{p} \rightarrow p + x^-$ . The differential cross section of the reaction (1) is calculated for this mechanism by a diagram technique, and the final expressions for the reaction amplitude is shown to be reconcilable with the experimental data under this assumption. The author thanks I. S. Shapiro for continuous interest in the work and a valuable discussion. Orig. art. has: 3 figures and 4 formulas.

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 003/ OTH REF: 001/

Card 2/2 J.W.

24.6900

84388  
S/056/60/048 10/06/048  
B004/B070

AUTHORS: Belyakov, V. A., Van Shu-fen', Glagolev, V. V., Dalkhazhav,  
N., Lebedev, R. M., Mel'nikova, N. N., Nikitin, V. A.,  
Petrzhilka, V., Sviridov, V. A., Suk, M., Tolstov, K. D.

TITLE: Inelastic Interactions of 7 Bev  $\pi^-$ -Mesons and Nucleons

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960, ✓  
Vol. 39, No. 4(10), pp. 937-947

TEXT: The inelastic interaction of 7-Bev  $\pi^-$ -mesons with nucleons is studied in this paper. The preliminary results were communicated to Kiyevskaya konferentsiya po fiziki vysokikh energiy (Kiyev Conference on the Physics of High Energies). The emulsion chamber consisted of 240 НИКФИ-Р (NIKFI-R) layers with a thickness of  $400\mu$ . 5300 interactions with the nuclei of photoemulsion were observed. Of these, 535 inelastic interactions were analyzed (Table 1). The theoretical distribution of the charged particles was calculated by V. S. Barashenkov. Spurious scattering was eliminated by special measurements (Table 2). 459 pions and 134 protons

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84388

Inelastic Interactions of 7 Bev  $\pi^-$ -Mesons  
and Nucleons

S/056/60/039/001; S/056/643  
B004/B070

were identified. The angular distribution of pions and the total distribution of all stars (in c.m.s.) are shown in Fig. 1. For smaller number of charged particles, the asymmetry increases strongly. This is principally due to pions with large momenta (Fig. 2). Therefore, the angular distributions are very different for fast and slow pions (Fig. 3). Pions with momenta  $< 0.5$  Bev show an almost isotropic distribution. From the angular and total distributions of protons (Fig. 4) it is seen that the protons conserve their initial direction. From the momentum distributions of pions and nucleons, the authors conclude that the average momentum of the nucleons and of the charged pions does not depend on the increase of the number of charged particles. The same result follows from the data for the average transverse momenta  $\bar{p}_\perp$  of protons and pions given in Table 3. Fig. 7 shows the number of neutral mesons as a function of the number of charged particles. The results can be interpreted only partly by the statistical theory. The asymmetry of the angular distribution of the secondary pions can only be explained by a peripheric collision of the pion with a pion of the nucleon shell (Figs. 8 and 9). An estimate of the radius of the nucleon core gave the

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84368

Inelastic Interactions of 7 Bev  $\pi^+$ -Nucleon . . .  
Nucleons

S/056/60/03 . . . 004/006/048  
B004/B07C

maximum value of  $4 \cdot 10^{-14}$  cm. The authors summarize the results as follows:  
Average momentum of protons =  $(0.89 \pm 0.04)$  Bev/c, average transverse  
momentum =  $(0.37 \pm 0.04)$  Bev/c; asymmetry of angular distributions of all  
pions =  $1.56 \pm 0.10$ ; pions with  $p > 0.5$  Bev/c are emitted in the forward  
direction, their average momentum equaling  $(0.87 \pm 0.06)$  Bev/c and agrees,  
therefore, with that of the protons. The authors thank D. I. Blokhintsev  
and V. I. Veksler for discussion and advice. There are 9 figures, 3  
tables, and 23 references: 9 Soviet, 8 US, 1 British, 1 German, 4  
Italian, 1 Japanese, and 1 Polish.

✓

ASSOCIATION: Ob'yedinenyyi institut yadernykh issledovaniy (Joint  
Institute of Nuclear Research)

SUBMITTED: May 11, 1960

Card 3/3

24.6900

S/056/60/070/001/003/048  
R004/B070*24.6900*AUTHORS: Van Shu-fen', Vishki, T., Gramenitskiy, I. M., Grishin,  
V. G., Dalkhazhav, N., Lebedev, R. M., Nomofilov, A. A.,  
Podgoretskiy, M. I., Strel'tsov, V. N.TITLE: Inelastic Interactions of 9 Bev Protons With NucleonsPERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,  
Vol. 39, No. 4(10), pp. 957-960

TEXT: In an earlier work (Ref. 1), the authors carried out the identification of particles and the measurement of their energies only for slow particles. In the present work, the study of pp and pn interactions is continued under conditions permitting the measurement of multiple scattering of fast particles. An НИКФИ-Р (NIKFI-R) emulsion pile was irradiated by 9-Bev protons from the proton-synchrotron of the authors' institute. The inelastic pp (161 events) and pn (94 events) interactions were selected according to the criterion described in Ref. 1. The average number of charged particles in pp interactions was  $3.25 \pm 0.10$

✓ 5

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84391

Inelastic Interactions of  $\gamma$  Bev Protons  
With Nucleons

S/056/60/030/001 1960 DATA  
3004/B070

and in pn interactions  $2.58 \pm 0.14$ . The identification was made according to Ref. 3 by means of the function  $g/g_0 = f(p\beta)$  for pions and protons. The identification was not certain in the range ( $1.5 \leq p\beta \leq 2.5$  Bev/c) where the curves for protons and pions intersected one another (Table 1). X  
The angular distribution of the secondary protons (in c.m.s.) from pp interactions was strongly anisotropic; the same was true for the pions (Fig. 2). The momentum distribution is shown only for the protons emitted backwards (Fig. 3), because due to spurious scattering only the lower limit of  $p\beta$  could be determined for forward emission. Fig. 4 gives the angular distribution of protons in pn interactions. Since there is no difference in the values of angular distribution and energy for pp and pn interactions, the authors treat the two together for higher statistical accuracy. The values of  $\bar{p}$ ,  $\bar{F}_1$ , and  $\theta$  for protons and pions are given in Table 2 for lower ( $n = 2, 3, 4$ ) and higher ( $n = 5, 6, 7$ ) multiplicities. The

values of  $a = \sqrt{\frac{p_1^2}{2}}$  for the lower and higher multiplicities are given in Table 3. The data show that the character of the interaction is only slightly affected by the number of the secondary charged particles.

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SECRET

Inelastic Interactions of  $\pi^+$  and  $\pi^-$   
With Nucleons

S/056/60/000000000000  
RUO4/BG70

The authors thank D. I. Blokhintsev and V. I. Veksler for discussions.  
There are 4 figures, 3 tables, and 7 references: 6 Soviet and 1 US.

ASSOCIATION: Ob"yedinennyi institut yadernykh issledovanii (Joint  
Institute of Nuclear Research)

SUBMITTED: May 12, 1960

X

Card 3/3

VAN SHU-FEN' [Wang Shu-fēn]; DALKHAZHAV, N.; LEBEDEV, R.M.; STREL'TSOV, V.N.

Dependence of distortions and spurious scattering on the angle  
of track slopes in a nuclear emulsion. Prib. i tekhn. eksp. 6  
no.2:60-62 Mr-Ap '61. (MIRA 14:9)

1. Ob'yedinennyj institut yadernykh issledovaniy.  
(Photography, Particle track)

KORBEL, Z.F.; SHAFRANOVA, M.G.; ZLATEVA, A.I.; MARKOV, P.K.;  
TODOROV, T.S.; CHERNEV, Kh.M.; DALKHAZHAV, N.; TUVDENDORZH,D.;  
ZRELOVA, N.N., tekhn. red.

[Elastic scattering of  $\pi^-$ -mesons on protons at a momentum  
of 4 Gev./c] Uprugoe rassieianie  $\pi^-$ -mezonov na protonakh pri  
impul'se 4 Gev/s. Dubna, Ob"edinennyi in-t iadernykh issledo-  
vani, 1963. 7 p. (MIRA 17:1)

1. Institut fiziki i khimii Mongol'skoy Akademii nauk, Ulan-  
Bator (for Dalkhazhav, Tuvdendorzh).

DALKHAZHAV, N.; ZLATEVA, A.Y.; KORBEL, Z.F.; MARKOV, P.K.; TODOROV, T.S.;  
TUVDENDORZH, D.; CHERNEV, Kh.M.; SHAFMANOVA, M.G.

Elastic scattering of 4Gev./c mesons by protons. Zhur. eksp.  
i teor. fiz. 47 no.1:12-15 Jl '64. (MIRA 17:9)

1. Ob'yedinennyj institut Yadernykh issledovaniy. 2. Sotrudniki  
Instituta fiziki i khimii Mongol'skoy Akademii nauk, Ulan-Bator  
(for Dalkhazhav, Tuvdendorzh). 3. Sotrudniki Fizicheskogo  
instituta i atomnoy nauchno-issledovatel'skoy laboratori  
Bolgarskoy Akademii nauk, Sofiya. (for Zlateva, Markov, Todorov,  
Chernev).

KIRILLOVA, L.F.; NIKITIN, V.A.; PANTUYEV, V.S.; SVIRIDOV, V.A.; STRU'IOV, L.N.; KHACHATURYAN, M.N.; KHRISTOV, L.G.; SHAFRANOVA, M.G.; KORBEL, Z.; ROB,L.; DAMYANOV, S.; ZLATEVA, A.; ZLATANOV, Z.; YORDANOV, V. [Jordanov,V.]; KANAZIRSKI, Kh.; MARKOV, P.; TODOROV, T.; CHERNEV, Kh.; DALKHAZHAV, N.; TUVDENDORZH, D.

Elastic pp and pd-scattering at small angles in the energy range  
2 - 10 Bev. IAd. fiz. 1 no.3:533-539 Mr '65. (MIRA 18:5)

1. Ob"yedinenyy institut yadernykh issledovaniy. 2. Vyssheye  
tekhnicheskoye uchilishche, Praga (for Korbel, Rob). 3. Fizicheskiy  
institut Bolgarskoy Akademii nauk, Sofiya (for Damyanov, Zlateva,  
Zlatanov, Yordanov, Kanazirski, Markov, Todorov, Chernev). 4. Institut  
khimii i fiziki, Ulan-Bator, Mongol'sakaya Narodnaya Respublika (for  
Dalkhazhav, Tuvdendorzh).

L 24301-66 EAT(m) DIAAP  
ACC NR: A16006795

SOURCE CODE: UR/0986/66/003/001/0015/0021

17c  
E

AUTHOR: Zolin, L. S.; Kirillova, L. F.; Liu, Ch'ing-ch'iang; Nikitin, V. A.; Pantuyev, V. S.; Sviridov, V. A.; Strunov, L. N.; Khachaturyan, M. M.; Shafranova, M. G.; Korbel, Z.; Rob, L.; Devinskii, R.; Zlatanov, Z.; Markov, P.; Khristov, I.; Chernev, K.; Dalkhazhav, N.; Tuvdendorzh, D.

ORG: [Zolin, Kirillova, Liu, Nikitin, Pantuyev, Sviridov, Strunov, Khachaturyan, Shafranova] Joint Institute of Nuclear Research, Dubna (Ob'yedinenyyi institut yadernykh issledovanii); [Korbel, Rob] Czechoslovakian Higher Technical School, Prague (Chechskoye vyssheye tekhnicheskoye uchilishche); [Devinskii, Zlatanov, Markov, Khristov, Chernev] Physics Institute, Bulgarian Academy of Sciences, Sofia (Fizicheskiy institut Bolgarskoy akademii nauk); [Dalkhazhav, Tuvdendorzh] Institute of Physics and Chemistry, Mongolian Academy of Sciences, Ulan Bator (Institut fiziki i khimii Mongol'skoy akademii nauk)

TITLE: Real part of the pn scattering amplitude in the energy interval 2--10 Gev

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniya, v. 3, no. 1, 1966, 15-21

TOPIC TAGS: proton scattering, neutron scattering, scattering amplitude, differential cross section, deuteron reaction

ABSTRACT: On the basis of experimental data obtained by the authors on elastic pd scattering in the energy interval 1--10 Gev, and information on pp scattering amplitude in this energy range, the authors determined the real part of the scattering

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L 24301-66

ACC NR: AP6006795

amplitude by means of an experiment involving registration of slow recoil deuterons from a film target of deuterated polyethylene 0.5--0.6  $\mu$  thick. The investigated range of the squared momentum transfer was  $0.003 < |t| < 0.2$  (Gev/c)<sup>2</sup>. Plots are presented of the differential cross sections vs. the square of the momentum transfer and an empirical formula is given for these plots. The value obtained for the total cross section of elastic pd scattering at 6 Gev is several times smaller than that measured by others. In the small-angle region of pd scattering, constructive interferences were observed between the Coulomb and nuclear scatterings. From the obtained real part of the pd scattering amplitude, and from a comparison of the obtained data with earlier measurements by the authors of the pp scattering amplitude of the same energies (ZhETF v. 50, 76, 1966), the estimated real part of the pn scattering amplitude is +0.2, -0.06, -0.45, and -0.40 for 2, 6, 8, and 10 Gev respectively. The small nonzero real part of the pn scattering amplitude agrees with data obtained at CERN (G. Bellettini et al., Internat. Conf on Elementary Particles, Oxford, 1965).  
Orig. art. has: 2 figures, 3 formulas, and 2 tables.

SUB CODE: 20/ SUBM DATE: 12Nov65/ ORIG REF: 005/ OTH REF: 005

Card 2/2 W

L 22122-66 EMT(1)

ACC NR: AP6004922

SOURCE CODE: UR/0056/66/050/001/0076/0077

38

B

AUTHOR: Kirillova, L. F.; Nikitin, V. A.; Sviridov, V. A.; Strunov, L. N.;  
Shafranova, M. G.; Korbel, Z.; Rob, L.; Zlateva, A.; Markov, P. K.; Todorov, T.;  
Khristov, L.; Chernev, Kh.; Dalkhazhev, N.; Tuvdendorzh, D.

ORG: Kirillova; Nikitin; Sviridov; Strunov; Shafranova / Joint Institute of  
Nuclear Research, Dubna (Ob'yedinennyi institut yadernykh issledovaniy); Korbel;  
Rob / Czechoslovakian Higher Technical School, Prague (Chekhoslovatskoye Vyssheye  
tekhnicheskoye uchilishche); Zlateva; Markov; Todorov; Khristov; Chernev / Physics  
Institute, Bulgarian Academy of Sciences, Sofia (Fizicheskiy institut Bolgarskoy  
Akademii nauk); Dalkhazhev; Tuvdendorzh / Institute of Chemistry and Physics,  
Mongolian Academy of Sciences, Ulan-Bator (Institut khimii i fiziki Mongol'skoy  
Akademii nauk)

TITLE: Real part of the pp elastic scattering amplitude at 2, 4, 6, 8, and 10 Gev

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, no. 1, 1966,  
76-77

TOPIC TAGS: proton scattering, elastic scattering, scattering amplitude, differ-  
ential cross section, nuclear scattering

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L 22122-66  
ACC NR: AP6004922

ABSTRACT: This is a continuation of earlier work by the authors (Phys. Lett. v. 13, 93, 1964) in which they present results of the measurements of the real part of the nuclear elastic scattering amplitude for an energy of 4 Gev, and more precise data for energies 2, 6, 8, and 10 Gev, taking into account the relativistic corrections. The experimental technique was described elsewhere (PTE no. 6, 18, 1963). The differential cross section was measured in the interval  $0.003 < |t| < 0.2$  ( $\text{Gev}/c^2$ ) ( $t$  = momentum transfer squared). The analysis of the obtained data as well as those reported by others was based on the Bethe formula (Ann. of Phys. v. 3, 190, 1958) with allowance for radiative corrections. The results agree well with the theoretical curve proposed by Soding (Phys. Lett. v. 8, 286, 1963), up to an energy of 20 Gev, above which some discrepancy appears. Orig. art. has: 1 figure and 2 formulas.

SUB CODE: 20/ SUBM DATE: 25Aug65/ ORIG REF: 001/ OTH REF: 008

Card 2/2 BK

24.6720

DALKHSUREN / B.

78324  
S07/89-8-3-9/32

AUTHORS: Dalkhsuren, B., Levenberg, I. Yu., Norseyev, Yu. V.,  
Pokrovskiy, V. N., Khaynatskiy, S. S.

TITLE: The Neutron-Deficient Isotope Ho<sup>155</sup>. Letter to the  
Editor

PERIODICAL: Atomnaya energiya, 1960, Vol 8, Nr 3, p 248 (USSR)

ABSTRACT: Mihelich, Ward, and others (see ref) assumed the exis-  
tence of a short-level isotope Ho<sup>155</sup> as

a parent nucleus needed to explain the formation of  
isotopes of Dy<sup>155</sup> and Tb<sup>155</sup>. The authors investigated  
on a scintillation  $\gamma$ -spectrometer the  $\gamma$ -spectrum of  
a holmium fraction obtained as a result of deep splitting  
of tantalum during exposure to 660-mev protons of the  
synchrocyclotron at the Joint Institute of Nuclear  
Research (Ob'yedinennyj institut yadernykh issledovaniy).  
They also performed multiple chromatographic separation  
of the daughter element dysprosium. A triple separation

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The Neutron-Deficient Isotope Ho<sup>155</sup>.  
Letter to the Editor

78324  
SOV/89-8-3-9/32

in 1-hr intervals showed in all three cases the presence of only Dy<sup>155</sup> isotope identified from its  $\gamma$ -spectrum and half-life. Mass number of Dy<sup>155</sup> was fixed by means of a mass spectrometer. The amount of Dy<sup>155</sup>

in consecutive separation was proportional to the activity of the parent material (Ho<sup>155</sup>) and varied according to a half-life of approximately 46 min. The authors, therefore, claim that they positively established the existence of the Ho<sup>155</sup> isotope with a half-life of 46 + 3 min. The  $\gamma$ -spectrum of this isotope probably contains the line  $\sim$  140 kev. Mihelich and others earlier attributed the  $\sim$  138 kev  $\gamma$ -line with a half-life of approximately 1 hr to Ho<sup>156</sup>, although they noted that the mass determination was not sufficiently substantiated. There are 5 references, 2 Soviet, 1 U.K., 2 U.S. The U.K. and U.S. references are: J. Mihelich, B. Harmatz, T. Handley, Phys. Rev., 108, 989 (1957); T. Ward, K. Yacob, J. Mihelich, B. Harmatz, T. Handley, Bull.

Card 2/3

The Neutron-Deficient Isotope Ho<sup>155</sup>.  
Letter to the Editor

73324  
SOV/89-6-3-9/32

Amer. Phys. Soc., Ser. II, 2, 259 (1957); Y. Riddel,  
A Table of Levy's Empirical Atomic Masses, Chalk  
River, Ontario, 1956.

SUBMITTED: July 14, 1959

Card 3/3

DALKHSUREN, B.; LEVENBERG, I.Yu.; MURIN, A.N.; NORSEYEV, Yu.V.; POKROVSKIY,  
V.P.; YUTLANDOV, I.A.

Radioactive decay series  $\text{Yb}^{164} \rightarrow \text{Tu}^{164} \rightarrow \text{Er}^{164}$ . Izv. AN  
SSSR. Ser. fiz. 24 no.9:1105-1108 S '60. (MIRA 13:9)  
(Ytterbium--Decay)

DALLAGO, Bruno, HANUL, Jan, VYKOUŠEL, Rehor

First results of an economic experiment in the building  
industry - Prace matice 13 na 219-24. F 169

1. Pozemní stavby National Enterprise - Brno.

VOLOSTNOVA, M.B.; DAL'KOVSKAYA, A.F.; DANILOVA, N.P.; KOPUSOVA,  
F.L.; LISITSKAYA, M.M.; LITVIN, I.P.; MIROFOL'SKIY,  
Ya.A.; NADZHAROVА, N.M.; SAVINA, V.I.; POLUEKTOVA, I.Ye.;  
GORYACHKIN, A.Z.

[Dictionary of the geographical names of foreign  
countries] Slovar' geograficheskikh nazvanii zarubezh-  
nykh stran. Moskva, Nedra, 1965. 480 p.  
(MIRA 18:7)

1. Moscow. TSentral'nyy nauchno-issledovatel'skiy institut  
geodezii, aeros"emki i kartografii.